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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/824,639 04/15/2004		4/15/2004	Mitsuo Umemoto	492322017800	7675
25227	7590	05/16/2006		EXAMINER	
MORRISO	N & FOE	RSTER LLP	VU, DAVID		
1650 TYSONS BOULEVARD SUITE 300				ART UNIT	PAPER NUMBER
MCLEAN. V	VA 22102	,		2818	

DATE MAILED: 05/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		10/824,639	UMEMOTO ET AL.				
		Examiner	Art Unit				
		DAVID VU	2818				
The MAILING DATE of the Period for Reply	is communication app	ears on the cover she	et with the correspondence add	lress			
A SHORTENED STATUTORY THE MAILING DATE OF THIS - Extensions of time may be available under after SIX (6) MONTHS from the mailing down the period for reply specified above, the second of the period for reply is specified above, the second of the period for reply is specified above, the second of the period for reply is specified above, the second of the period for reply within the set or extended any reply received by the Office later that the period of the patent term adjustment. See 37 Countries are second of the period of the	COMMUNICATION. r the provisions of 37 CFR 1.13 ate of this communication. ss than thirty (30) days, a reply he maximum statutory period w period for reply will, by statute, three months after the mailing	6(a). In no event, however, r within the statutory minimum ill apply and will expire SIX (6 cause the application to becc	nay a reply be timely filed of thirty (30) days will be considered timely.) MONTHS from the mailing date of this cor me ABANDONED (35 U.S.C. § 133).	nmunication.			
Status							
1) Responsive to communic	ation(s) filed on 02 Ma	arch 2006.					
2a)☐ This action is FINAL .		action is non-final.					
3) Since this application is i	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims			•				
	is/are withdrawn bywed. ed. ected to. ect to restriction and/or eed to by the Examiner of April 2004 is/are: a) and any objection to the of estimate any objection to the	relection requirement. ✓ accepted or b) drawing(s) be held in allon is required if the drawing is the drawing in allon is required if the drawing is the	t. objected to by the Examiner. beyance. See 37 CFR 1.85(a). awing(s) is objected to. See 37 CF				
·	objected to by the Ex	armier. Note the acc					
2.☐ Certified copies of 3.☐ Copies of the certified c	None of: the priority documents the priority documents fied copies of the prior e International Bureau	s have been received s have been received ity documents have I (PCT Rule 17.2(a)).	I. I in Application No been received in this National \$	Stage			
Attachment(s)		م⊏	bious Common (DTO 442)				
Notice of References Cited (PTO-89/2) Notice of Draftsperson's Patent Draw Information Disclosure Statement(s) Paper No(s)/Mail Date	ing Review (PTO-948)	Pape	view Summary (PTO-413) er No(s)/Mail Date ce of Informal Patent Application (PTO er:	-152)			

DETAILED ACTION

Continued Examination Under 37 CFR 1.914

1. A request for continued examination under 37 CFR 1.114, including the, fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 02, 2006 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-7 are rejected under 35 U. S. C. 102(e) as being anticipated by Ikegami (US Pat 6,674,178).

Ikegami discloses in figs. 6-9 a method of manufacturing a semiconductor device, comprising:

providing a substrate 15 having a first electrode 16 thereon;

dispensing a sealing resin 17 to a region of the substrate 15 that does not include the first electrode 16;

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providing a semiconductor chip 11 having a second electrode 13'on a peripheral portion of a front surface of the semiconductor chip 11;

placing the semiconductor chip 11 over the substrate 15 so that the front surface of the semiconductor chip 11 faces the sealing resin 17;

applying a negative pressure (air suction) and a positive pressure (pressing the semiconductor chip 11 with a fixed amount of force) to the whole surface including both the central and peripheral portion of the semiconductor chip 11 (fig. 7 and col. 7, line 63 through col. 8, line 23); and

further applying a negative pressure (air suction/pulling) and a positive pressure (pressing the semiconductor chip 11 with a fixed amount of force) to the whole surface including both the central and peripheral portion of the semiconductor chip 11 so that the sealing resin extends in a space between the substrate and the front surface of the semiconductor chip (fig. 8 and col. 8, lines 24-43).

Response to Arguments

- 3. Applicant's arguments filed 03/02/06 have been fully considered but they are not persuasive.
- 4. In response to applicant's argument that no part of Ikegami teaches or suggests that a two-step pressure application. Note that Ikegami teaches applying a negative and a positive pressure to the whole surface including both the central and peripheral portion of the

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semiconductor chip 11 in fig. 7; and further applying a negative and a positive pressure to the

whole surface including both the central and peripheral portion of the semiconductor chip 11 in

fig. 8. Therefore, Ikegami, as indicated in the above rejection, clearly discloses claimed features.

Conclusion

Any inquiry concerning this communication or earlier communications from the 5.

examiner should be directed to David Vu whose telephone number is (571) 272-1798. The

examiner can normally be reached on Monday-Friday from 8:00am to 5:00pm. If attempt to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can

be reached on (571) 272-1787. The fax phone number for the organization where this application

or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR, Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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